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PTO/SB/21 (05-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

		Application Number	10/656,802
		Filing Date	September 4, 2003
		First Named Inventor	Erik Scher
		Group Art Unit	1753
		Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number	40-001320US

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): <input type="checkbox"/> USPTO Form 1449; Cited References; receipt acknowledgment postcard
<input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)		
<input type="checkbox"/> Extension of Time Request		
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<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

Authorization to Charge Deposit Account

Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.

Remarks**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Jonathan Alan Quine, Reg. No. 41,261, Quine Intellectual Property Law Group, P.C.
Signature	
Date	March 16, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Amelia Weintraub
Signature	
Date	March 16, 2004



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By Amelia Weintraub
QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

Attorney Docket No. 40-001320US
Client Ref. No. 01-001320US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Erik Scher, et al.

Examiner: Unassigned

Application No.: 10/656,802

Art Unit: 1753

Filed: September 4, 2003

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR § 1.97 and
§ 1.98

For: NANOSTRUCTURE AND
NANOCOMPOSITE BASED
COMPOSITIONS AND
PHOTOVOLTAIC DEVICES

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

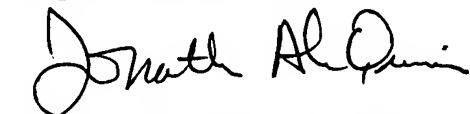
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

Erik Scher, et al.
Application No.: 10/656,802
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representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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Reg. No. 41,261

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Substitute for form 1449A-B/PTO

Complete if Known

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First Named Inventor	Erik Scher
Group Art Unit	1753
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Attorney Docket Number	40-001320US
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)



U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
01	2001/0046244	A1	Klimov et al.	11-29-2001		
02	2003/0142944	A1	Sundar et al.	07-31-2003		
03	2003/0226498	A1	Alivisatos et al.	12-11-2003		
04	5,260,957		Hakimi et al.	11-09-1993		
05	5,293,050		Chapple-Sokol et al.	03-08-1994		
06	5,354,707		Chapple-Sokol et al.	10-11-1994		
07	5,422,489		Bhargava	06-06-1995		
08	5,585,640		Huston et al.	12-17-1996		
09	5,613,140		Taira	03-18-1997		
10	6,322,901	B1	Bawendi et al.	11-27-2001		
11	6,501,091	B1	Bawendi et al.	12-31-2002		

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
12	WO	96/10282						
13	WO	03/084292			Massachusetts Institute of Technology	10-09-2003		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
14		Alivisatos (1996) "Perspectives on the Physical Chemistry of Semiconductor NanoCrystals." <i>J. Phys. Chem.</i> 100:13226-13239.	
15		Alivisatos (2000) "Naturally Aligned Nanocrystals" <i>Science</i> , 289:736	
16		Colvin et al. (1994) "Light Emitting Diodes Made from Cadmium Selenide Nanocrystals and a Semiconducting Polymer. <i>Nature</i> 370:354-357.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	17	Dabbousi et al. (1995) "Electroluminescence from CdSe quantum-dot/polymer composites." Appl. Phys. Lett. 66(11):1316-1318.	
	18	Danek et al. (1996) "Synthesis of Luminescent Thin-Film CdSe/ZnSe Quantum Dot Composites Using CdSe Quantum Dots Passivated with an Overlayer of ZnSe." Chem. Mater. 8(1):173-180.	
	19	Diehl (1997) "Fraunhofer LUCOLEDs to replace lamps." III-Vs Rev. 10(1).	
	20	Empedocles et al. (1996) "Photoluminescence Spectroscopy of Single CdSe Nanocrystallite Quantum Dots." Phys. Rev. Lett. 77(18):3873-3876.	
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	22	Greenham et al. (1997) "Charge separation and transport in conjugated polymer cadmium selenide nanocrystal composites studied by photoluminescence quenching and photoconductivity." Synthetic Metals 84:545-546.	
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	27	Kuno et al. (1997) "The band edge luminescence of surface modified CdSe nanocrystallites: Probing the Luminescing state." J. Chem. Phys. 106(23):9869-9882.	
	28	Lawless et al. (1995) "Bifunctional Capping of CdS Nanoparticles and Bridging to TiO ₂ ." J. Phys. Chem. 99:10329-10335.	
	29	Lee et al. (2000) "Full color Emission from II-VI Semiconductor Quantum Dot-Polymer composites." Adv. Mater. 12(15):1102-1105.	
	30	Li et al. (2001) " <u>Band gap variation of size- and shape-controlled colloidal CdSe quantum rods</u> " Nanoletters 1, 349-351.	
	31	Li et al. (2002) "Semiconductor nanorod liquid crystals" Nano Letters 2: 557-560	
	32	Matsumoto (1996) "Preparation of Monodisperse CdS Nanocrystals by Size Selective Photocorrosion." J. Phys. Chem. 100(32):13781-13785.	
	33	Murray et al. (1993) "Synthesis and Characterization of Nearly Monodisperse CdE (E = S, Se, Te) Semiconductor Nanocrystallites" J. Am. Chem. Soc. 115, 8706	

Examiner Signature		Date Considered	
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	34	Nirmal et al. (1996) "Fluorescence Intermittency in single Cadmium Selenide Nanocrystals." Nature, 383-802-804.	
	35	Scher et al. (2003) "Shape Control and Applications of Nanocrystals." Philosophical Transactions of the Royal Society London, Series A. 361:241-257	
	36	Schlamp et al. (1997) "Improved efficiencies in light emitting diodes made with CdSe(CdS) core/shell type nanocrystals and a semiconducting polymer." Journal of Applied Physics 82:5837-5842.	

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